

## Utah Weekly Pertussis Update

2015 data, through MMWR week ending September 26, 2015 (MMWR week 38)

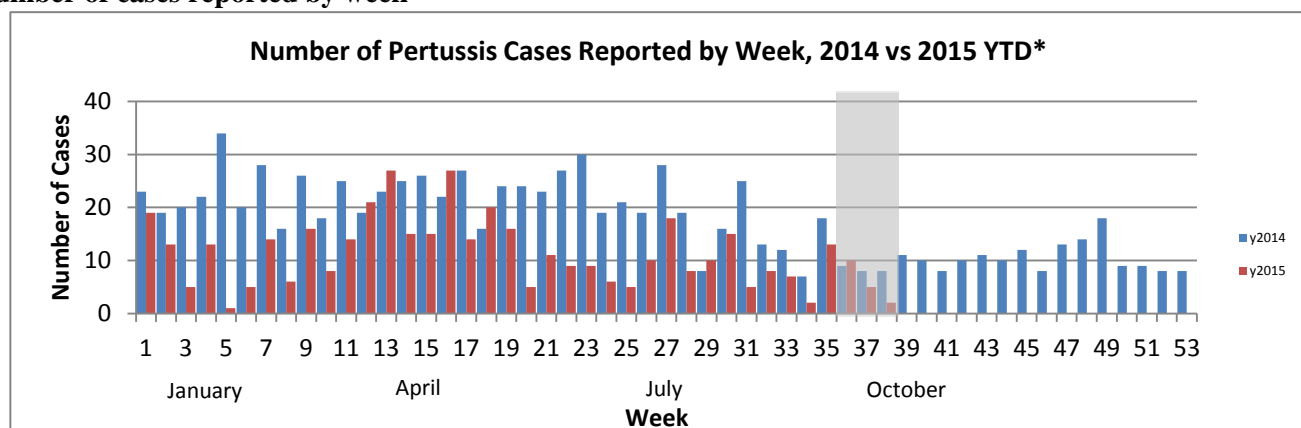
*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	427	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	20.0
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	36	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	767	2015 Hospitalizations	13
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	34
	1-4 year		

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	34	50,052	92.2
1-4	66	203,815	43.9
5-14	116	505,598	31.1
15-24	88	469,436	25.4
25-34	29	440,736	8.9
35-44	42	372,699	15.3
45-54	17	305,312	7.6
55-64	21	269,589	10.6
65+	14	283,635	6.7
Total	427	2,900,872	20.0

\* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

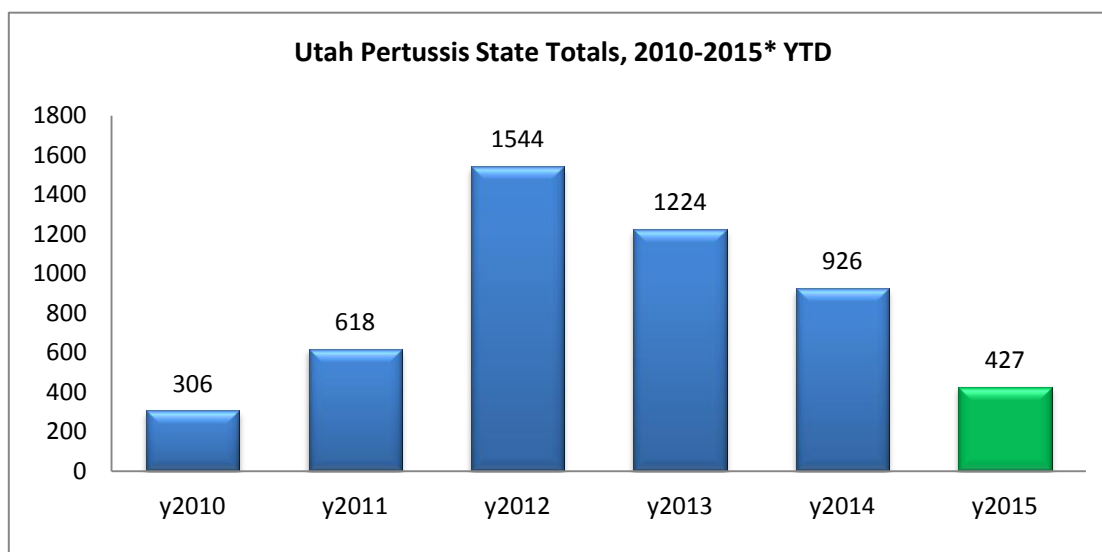
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	177	103,602	231.8
Kindergarten	5	13	53,177	33.2
1	6	11	52,869	28.2
2	7	6	52,063	15.6
3	8	16	51,809	41.9
4	9	11	51,080	29.2
5	10	13	50,567	34.9
6	11	12	48,961	33.3
7	12	10	49,008	27.7
8	13	12	48,884	33.3
9	14	12	47,180	34.5
10	15	30	46,321	87.9
11	16	21	45,914	62.1
12	17	18	44,889	54.4

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	3	2.4
Central Utah	10	17.8
Davis County	58	24.4
Salt Lake Valley	114	14.3
San Juan County	13	117.8
Southeast Utah	1	3.3
Southwest Utah	9	5.7
Summit County	42	148.1
Tooele County	3	6.7
TriCounty	2	4.8
Utah County	79	19.4
Wasatch County	7	35.9
Weber-Morgan	43	23.5

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

